algebra universalis

Vol. 15 1982

G. Birkhoff
Honorary Editor-in-Chief

A. Tarski
Honorary Editor-in-Chief

G. Grätzer
Editor-in-Chief

C. Platt
Executive Editor

University of Manitoba, Winnipeg, Man., Canada

Birkhäuser Verlag, Basel • Boston • Stuttgart

This journal accepts papers in the areas of universal algebra and lattice theory, as well as papers inspired by or having applications to these areas. The Mailbox contains short communications of interest to specialists in these areas. Papers for publication should be sent in triplicate directly to: Executive Editor, Algebra Universalis, Department of Mathematics, University of Manitoba, Winnipeg, Manitoba R3T 2N2, Canada. The author should indicate which member of the Editorial Board he wishes to handle the paper.

Subscription per volume:
sFr. 110.-/US$66.50
Single number: sFr. 40.-/US$26.00
3 issues per volume, 2 volumes per year

'algebra universalis' appears in volumes of 3 numbers issued in free sequence.

Subscription orders except USA and Canada should be placed with Birkhäuser Verlag, P.O. Box 133, CH-4010 Basel/Switzerland.
All orders for USA and Canada should be placed with Birkhäuser Boston, Inc., 380 Green Street, Cambridge, MA 02139/USA.

Editorial Office:
Department of Mathematics, University of Manitoba, Winnipeg, Manitoba Canada R3T 2N2

Published by the University of Manitoba and distributed by Birkhäuser Publishers, P.O. Box 133, CH-4010 Basel/Switzerland

Correspondence concerning advertisements should be addressed to:
Birkhäuser Verlag,
P.O. Box 133, CH-4010 Basel/Switzerland

Copyright
It is a fundamental condition of publication that submitted manuscripts have not been published, nor will be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations. Photographic reproduction, microform, or any other reproduction of text, figures or tables from this journal is prohibited without permission obtained from the publisher.

© 1982 Birkhäuser Publishers, P.O. Box 133, CH-4010 Basel/Switzerland

For users in the USA:
The appearance of the code on the top of the first page of each article in this journal indicates the copyright owner's consent that copies of articles may be made for personal or internal use, or for the personal or internal use of specific clients. However, this consent is given on the condition that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc., 21 Congress St., Salem, Mass. 01970, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. For copying from back volumes of this journal see Permissions to Photo-Copy: Publisher's Fee List of the CCC.

For users in the Federal Republic of Germany:
All rights reserved (including those of translation into foreign languages). No part of this journal may be reproduced in any form - by photoprint, microfilm, or any other means - nor transmitted or translated into a machine language without the written permission of the publishers. Only single copies of contributions, or parts thereof, may be reproduced for personal use. Copies reproduced and used for other than private purpose in an industrial or commercial undertaking are subject to copyright and, in such cases, a copyright fee must be paid to the VG WORT, Abteilung Wissenschaft, Goethestrasse 49, 8000 München 2, from whom conditions of payment can be obtained on request.

U.S. Postmaster: Send address changes to algebra universalis, Birkhäuser Boston Inc., 380 Green Street, Cambridge, MA 02139. Application to mail at second class postage rates is pending at Cambridge, MA.

ISSN 0002-5240
Printed in Switzerland

dex, Volume 15

ams, M.E. and Trnková, V.: Isomorsms of sums of countable bounded disutive lattices 242

'dwin, J.T., Berman, J., Glass, A.M.W. l Hodges, W.: A combinatorial fact out free algebras 145

'dwin, J.T. and McKenzie, R.N.: Countmodels in universal Horn classes 359

man, J.: see Baldwin, J.T. 145

k, W.J. and Pigozzi, D.: On the struce of varieties with equationally definable ncipal congruences I 195

sbach, B.: Concerning cone algebras 58

rmeister, P.: Partial algebras – survey of nifying approach towards a two-valued del theory for partial algebras 306

rris, S.: The first order theory of Boolean ebras with a distinguished group of auorphisms 156

en, C.C. and Koh, K.M.: On the length the lattice of sublattices of a finite distrive lattice 233

en, C.C., Koh, K.M. and Lee, S.C.: On purity of the lattice of sublattices of a te distributive lattice 258

mer, S.D.: Boolean combinations of nadic formulas 299

édli, G.: A note on the compactness of consequence relation for congruence ieties 142

y, A. and Nation, J.B.: A note on finite lattices of free lattices 90

bbertin, H.: On Vaught's criterion for morphisms of countable Boolean algeas 95

ed, E., Kaiser, H.K. and Márki, L.: An mentary approach to polynomial interlation in universal algebras 40

ed, E. and Wiegandt, R.: Abstract relanal structures, I (General theory) 1

ed, E. and Wiegandt, R.: Abstract relanal structures, II (Torsion theory) 22

Glass, A.M.W.: see Baldwin, J.T. 145

Goralčik, P. and Koubek, V.: There are too many subdirectly irreducible bands 187

Hodges, W.: see Baldwin, J.T. 145

Isbell, J.: Generating the algebraic theory of *C(X)* 153

Ježek, J.: Simple semilattices with two commuting automorphisms 162

Jónsson, B.: Varieties of relation algebras .. 273

Kaiser, H.K.: see Fried, E. 40

Katriňák, T.: Free *p*-algebras 176

Koh, K.M.: see Chen, C.C. 233, 258

Koubek, V.: see Goralčik, P. 187

Kramer, R. and Maddux, R.: Equations not preserved by complete extensions 86

Lee, S.C.: see Chen, C.C. 258

Maddux, R.: see Kramer, R. 86

Márki, L.: see Fried, E. 40

McKenzie, R.: Narrowness implies uniformity 67

McKenzie, R.N.: see Baldwin, J.T. 359

McNulty, G.F.: Covering in the lattice of equational theories and some properties of term finite theories 115

Nation, J.B.: see Day, A. 90

Pálfy, P.P., Szabó, L. and Szendrei, A.: Automorphism groups and functional completeness 385

Pigozzi, D.: see Blok, W.J. 195

Schmid, J.: Algebraically closed distributive *p*-algebras 126

Szabó, L.: see Pálfy, P.P. 385

Szendrei, A.: see Pálfy, P.P. 385

Tarski, A.: Dedication and biography No.1,i

Trnková, V.: see Adams, M.E. 242

Tulipani, S.: A use of the method of interpretations for decidability or undecidability of measure spaces 228

Wiegandt, R.: see Fried, E. 1, 22